

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Massoud Kayvanjah

GENERAL INFORMATION:

Name:	Baillie Lumber Company
Address:	P.O. Box 623 Leitchfield, KY 42754
Date application received:	9/22/2006
SIC Code/SIC description:	2421, Sawmills and Planing Mills, General (sawmills)
Source ID:	21-085-00026
Source A.I. #:	1554
Activity ID:	APE20060001
Permit:	F-07-002

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy) Two units 38.7 mmBTU/hr	Potential (tpy) Three Units 66.8 mmBTU/hr
PM/PM ₁₀	23	59.5/57.6
SO ₂	2.6	6.15
NO _x	42	66
CO	51.6	97
VOC	1.5	17
Single HAP	NA	Less than 10
Source wide HAPs	NA	Less than 25

SOURCE DESCRIPTION:

The application of Baillie Lumber for a revision of their existing minor source State Origin Permit (S-02-097) for the addition of a 28.1 indirect heat exchanger was received on September 22, 2006, September 27, and December 5, 2005 respectively. The source requested limits on the hours of operation for the boilers, the reason being that the source wide potential emissions of regulated air pollutants exceeded the major source threshold. Specifically, the 10 mmBTU/hr natural gas boiler (EP-01) shall be operated not more than 336 hours annually, the 28.7 mmBTU/hr wood fired boiler (EP-04) shall be operate not more than 6000 hours, and the new 28.1 mmBTU/hr wood fired boiler (EP-05) operated not more than 8436 hours. However, based on the emissions calculations evaluation, the Division has determined that the 401 KAR 52:020 -Title V requirements will still apply to the significant revision. Conversely, the sources actual emissions of regulated air pollutants including the new construction are greater than fifty percent of the major source threshold. Therefore, the Division has determined that to preclude the applicability of 401 KAR 52:020, the facility shall be permitted under 401 KAR 52:030 and emissions of any regulated shall not exceed 90 tons per any consecutive twelve months.

Emissions were calculated based on current AP 42 emission factors for the existing units and vendor guarantees on nitrogen oxides and carbon monoxide for the new boiler, which were submitted by the permittee to the Division. The facility also operate a Lumber trimming mill, including one 26000 bd ft/hr trimmer, one 5000 bd ft/hr planner, one 1500 bd ft/hr gang saw, and one 2.5 tons/hr wood dog, controlled by a baghouse which are is not limited on hours of operation. Additional information used in making this review was obtained from file record

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

To preclude the applicability of 401 KAR 52:020, emission of any regulated air pollutant shall not exceed 90 tons per year on any consecutive twelve months. Additionally, the 10 mmBTU/hr natural gas boiler shall be operated not more than 336 hours, the 28.7 mmBTU/hr wood fired boiler shall be operated not more than 6000 hours, and the new 28.1 mmBTU/hr wood fired boiler operated not more than 8436 hours.

OPERATIONAL FLEXIBILITY: NONE